Cloud Identification

Three Basic Cloud Types

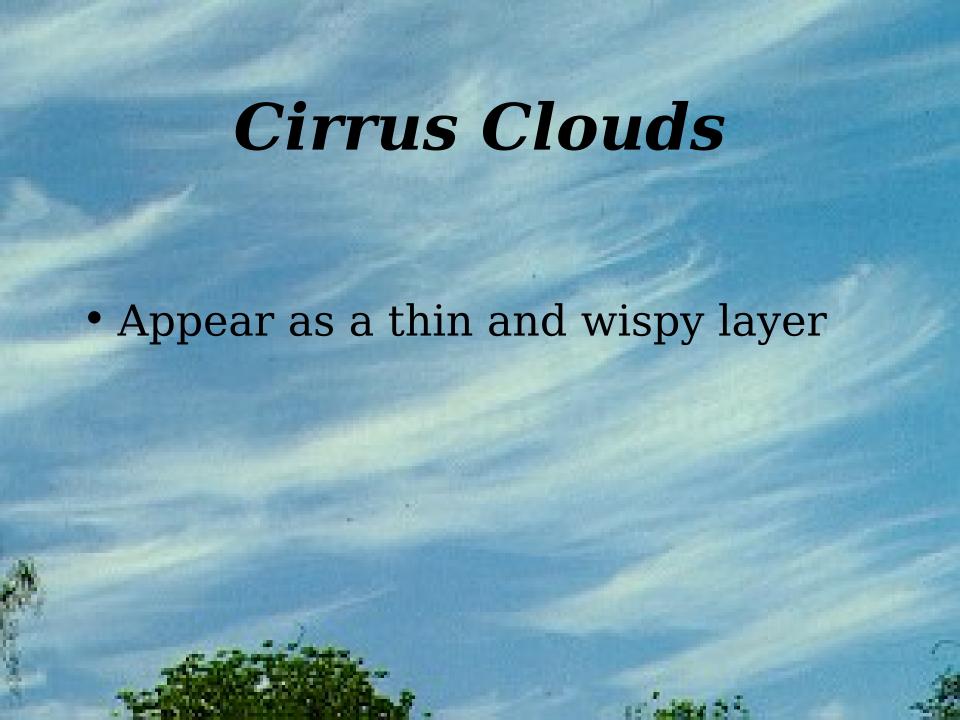
- Cumulus
 - Stratus
 - Cirrus

Cumulus Clouds

- Appear very white in color and become darker as they build in size
- Feature horizontal bases and heaping tops



- Appear as a uniform gray layer
- Cover the sky

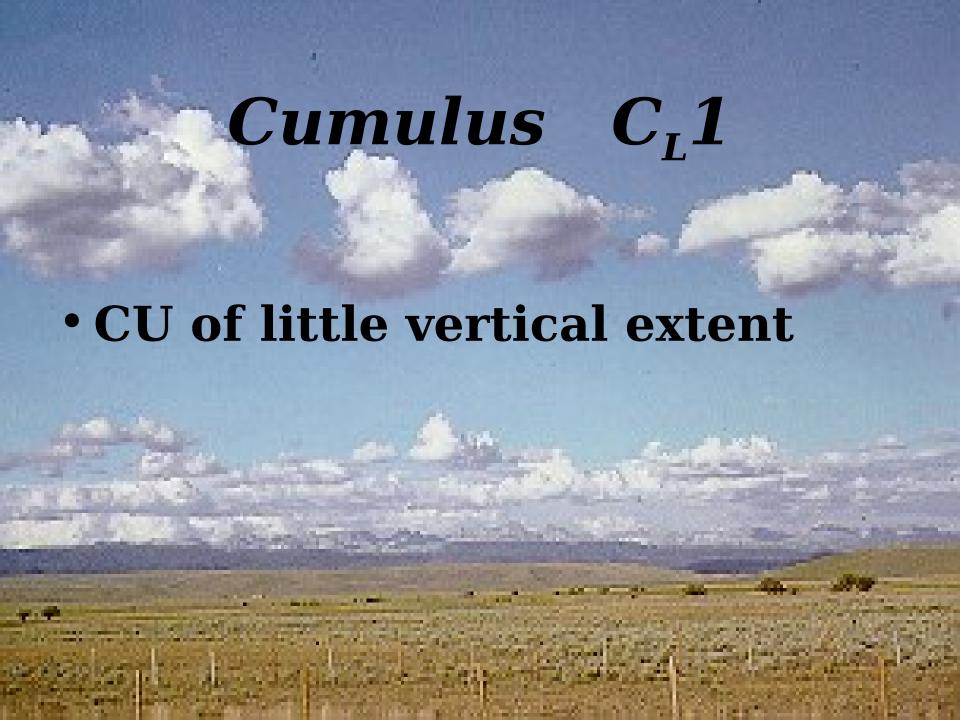


Three Cloud Layers (Etages)

- Low Clouds C_L
- Mid Clouds C_M
- High Clouds C_H

Low Etage (up to 6,500 ft)

- Cumulus $(C_L 1)$
- Towering cumulus $(C_L 2, C_L 3)$
- Stratocumulus (C_L4, C_L5)
- Stratus (C_L6)
- Stratus fractus or cumulus fractus (C_L7)
- Cumulus and stratocumulus (C_L8)
- · Cumulonimbus (C.9)

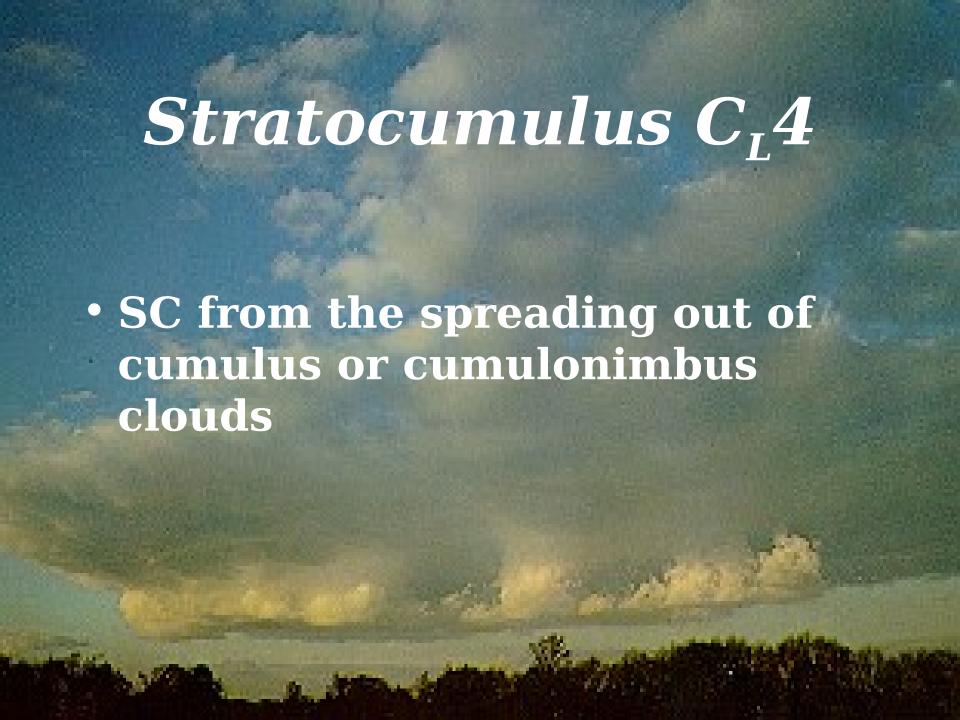


Cumulus C_L2

- CU of moderate or strong towering <u>vertical</u> development
- Normally accompanied by other CU or SC with bases at the same level



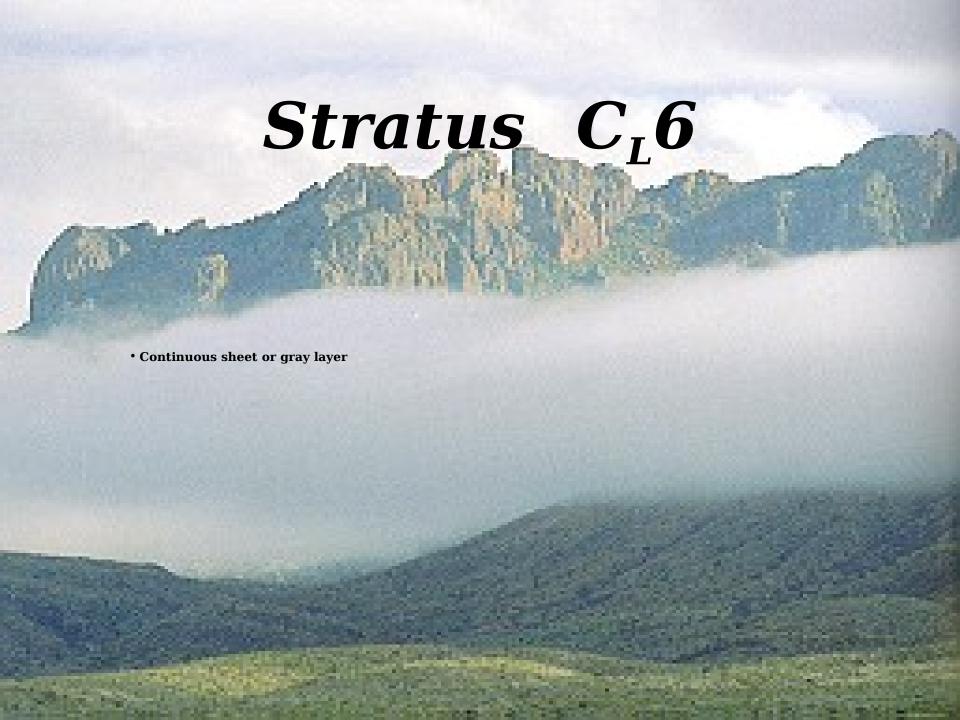
- Earliest form of a cumulonimbus
- Contains a summit which lacks cirriform development (no anvil)



Stratocumulus C_L5

• Includes all SC clouds <u>not</u> formed from the spreading out of cumulus





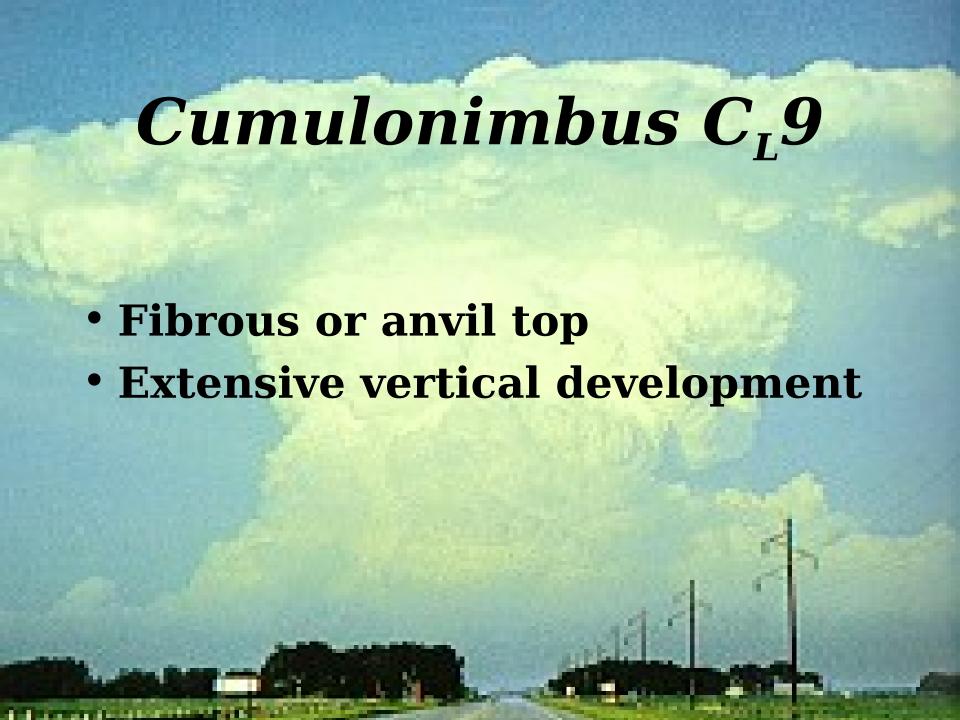
Stratus Fractus or Cumulus Fractus C_L7

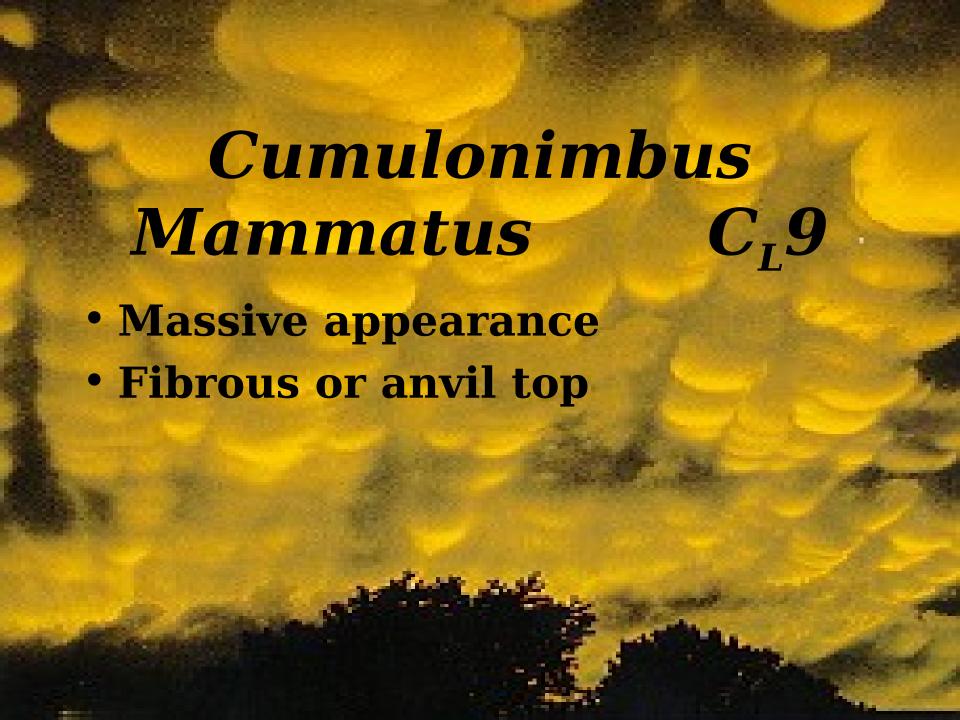
 Usually found beneath the base of CB clouds that are precipitating





- Combination of both CU and SC
- Formed by means other than the spreading of cumulus





Mid Etage (6,500 -18,000 ft)

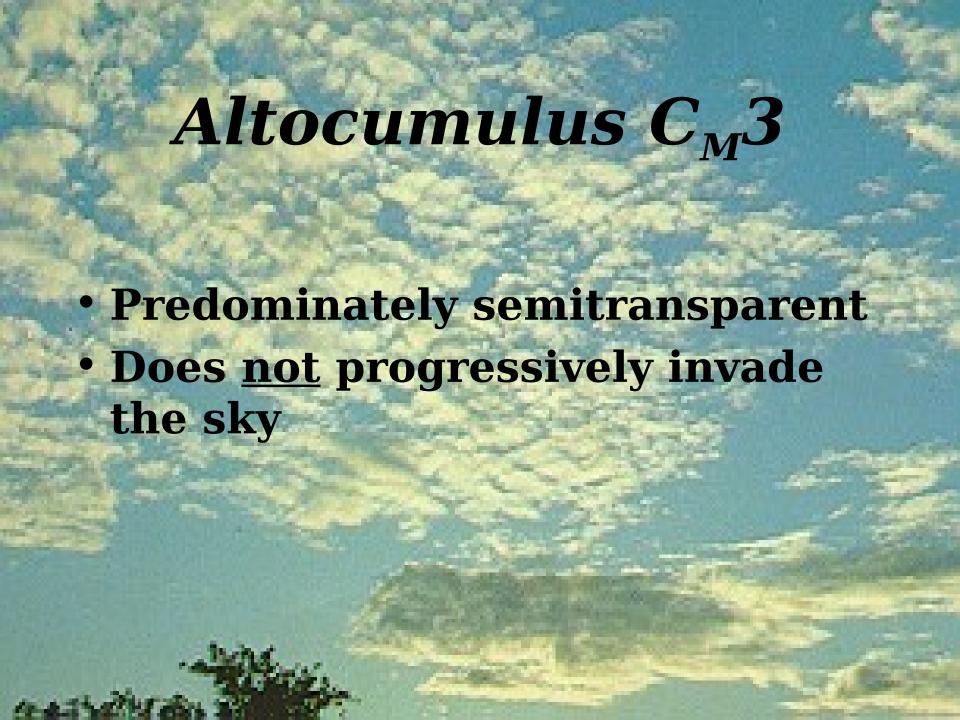
- Altostratus $(C_M 1)$
- Altostratus or nimbostratus $(C_M 2)$
- Altocumulus $(C_M 3, C_M 4, C_M 5, C_M 6, C_M 8, C_M 9)$
- Altocumulus or altocumulus with altostratus $(C_M 7)$

Altostratus C_M1

• Greater part of cloud is semitransparent

Altostratus or Nimbostratus $C_M 2$

 Denser and darker cloud which produces heavier precipitation

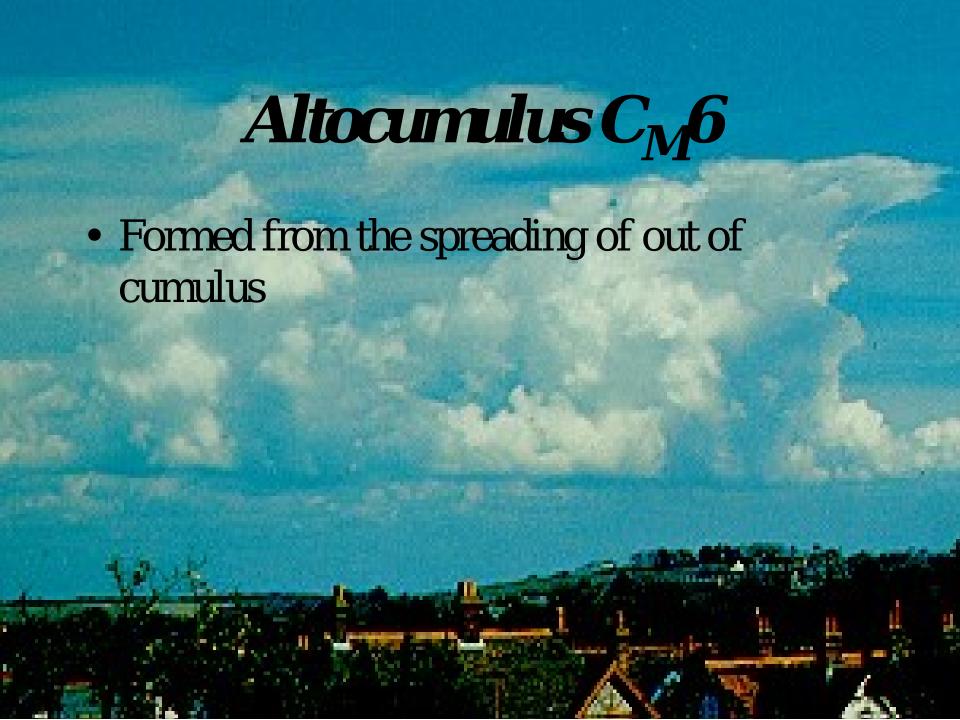


Altocumulus C_M4

• Irregularly shaped elements that are continually changing shape

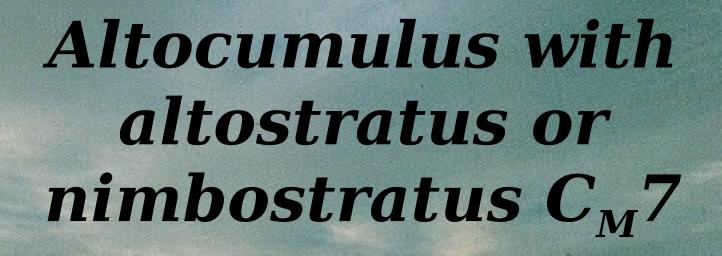






Altocumulus C_M7

- Consists of two or more layers of AC
- Altocumulus together with altostratus or nimbostratus

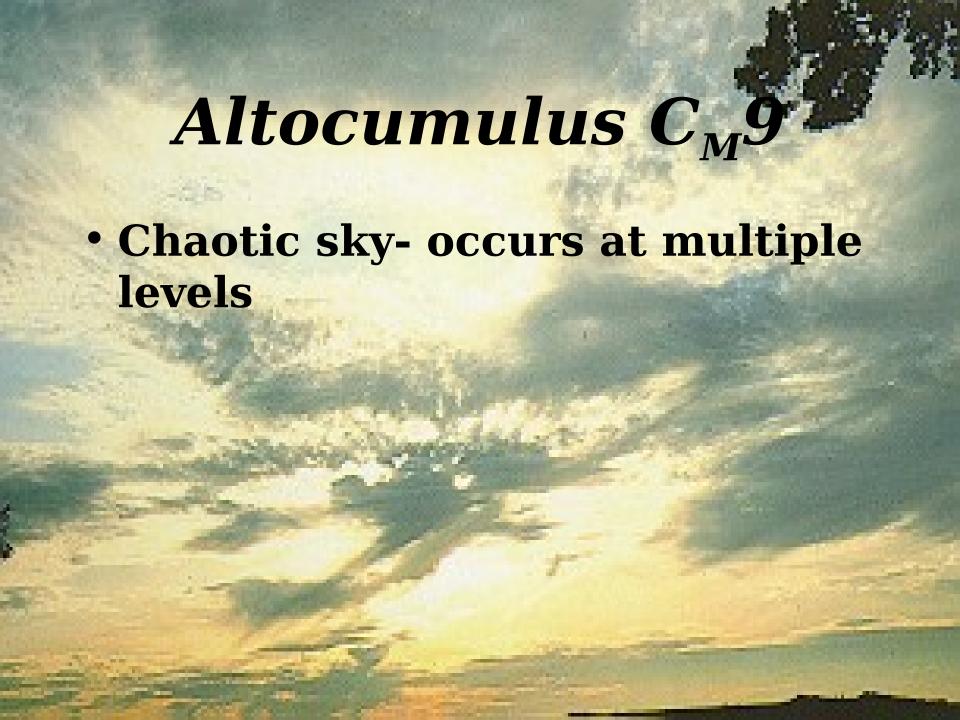


 Consists of AC clouds in two or more layers



Altocumulus C_M8

 Contain tuffs or sprouting in the form of small towers or battlements





- Cirrus $(C_H 1, C_H 2, C_H 3, C_H 4)$
- Cirrus and Cirrostratus or Cirrostratus alone $(C_H 5, C_H 6)$
- Cirrostratus (C_H7, C_H8)
- Cirrocumulus (C_H9)

Cirrus C_H1

 Filaments, strands, or hooks that <u>do not</u> progressively invade the sky

Cirrus C_H1

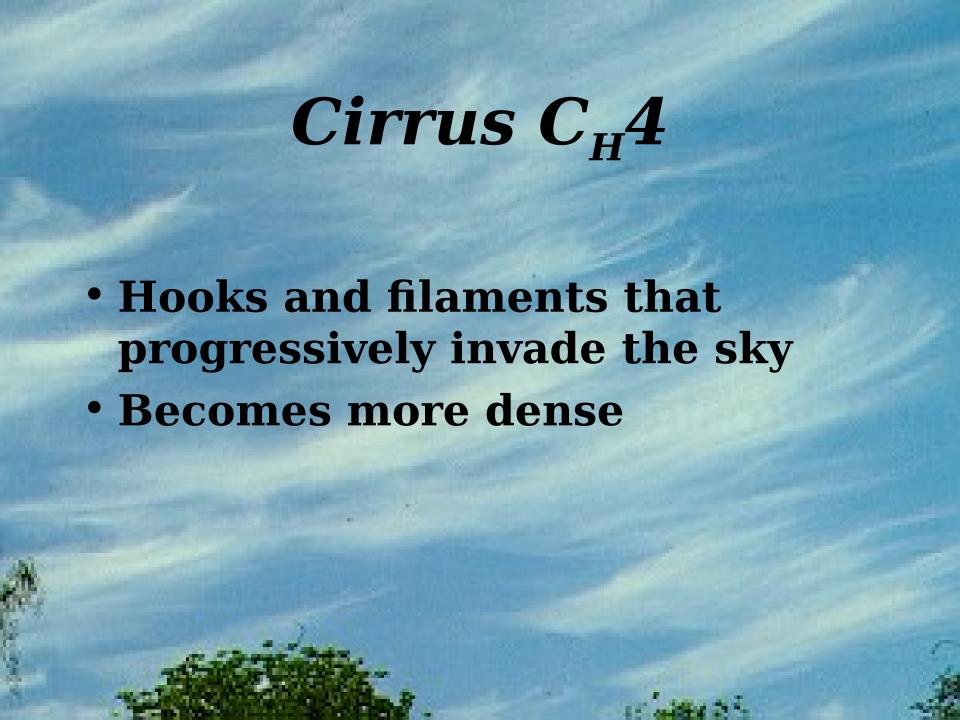
 Filaments, strands, or hooks that do not progressively invade the sky



• Dense, found in patches or entangled sheaves that usually do not increase in size

Cirrus C_H3

- Dense cloud often in the form of an anvil
- Transformed from upper levels of a CB



Cirrus and Cirrostratus or Cirrostratus C_H 5

 Progressively increasing but below 45° elevation



Cirrostratus C_H6

Increasing and above 45° elevation

Cirrostratus C_H7

- Uniform veil covering the sky
- Can produce the halo phenomenon

Cirrostratus C_H8

- No longer progressively invades the sky
- Does not completely cover the sky

Cirrocumulus C_H9

Referred to as a mackerel sky

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The Hydrologic Cycle

